

# CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/575,638A

CRF Processing Date: 9/5/2000  
 Edited by: REC  
 Verified by: REC (STIC staff)

SEP 12 2000  
 TECH CENTER 1600/2900

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☒ Inserted mandatory headings, specifically: (A) ADDRESSEE:
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

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RAW SEQUENCE LISTING                      DATE: 09/08/2000  
 PATENT APPLICATION: US/09/575,638A        TIME: 14:26:46

Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\09082000\I575638A.raw

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:  
 5     (i) APPLICANT: LAFFEND, LISA ANNE  
 6                   NAGARAJAN, VASANTHA  
 7                   NAKAMURA, CHARLES  
 9     (ii) TITLE OF INVENTION: BIOCONVERSION OF A FERMENTABLE  
 10                   CARBON SOURCE TO 1,3-PROPANE-DIOL BY A SINGLE MICROORGANISM  
 12     (iii) NUMBER OF SEQUENCES: 46  
 22     (iv) CORRESPONDENCE ADDRESS:  
 15             (A) ADDRESSEE: E. I. DUPONT DE NEMOURS AND COMPANY  
 24             (B) STREET: 4 CAMBRIDGE PLACE  
 25                   1870 SOUTH WINTON ROAD  
 26             (C) CITY: ROCHESTER  
 27             (D) STATE: NEW YORK  
 28             (E) COUNTRY: U.S.A.  
 29             (F) ZIP: 14618  
 31     (v) COMPUTER READABLE FORM:  
 32             (A) MEDIUM TYPE: 3.50 INCH DISKETTE  
 33             (B) COMPUTER: IBM  
 34             (C) OPERATING SYSTEM: MICROSOFT WINDOWS 95  
 35             (D) SOFTWARE: MICROSOFT WORD 7.0A  
 37     (vi) CURRENT APPLICATION DATA:  
 C--> 38             (A) APPLICATION NUMBER: US/09/575,638A  
 C--> 39             (B) FILING DATE: 22-May-2000  
 40             (C) CLASSIFICATION:  
 42     (vii) PRIOR APPLICATION DATA:  
 43             (A) APPLICATION NUMBER: 08/440,293  
 44             (B) FILING DATE: MAY 12, 1995  
 46     (viii) ATTORNEY/AGENT INFORMATION:  
 47             (A) NAME: LINDA AXAMETHY FLOYD  
 48             (B) REGISTRATION NUMBER: 33,692  
 49             (C) REFERENCE/DOCKET NUMBER: CR9715 US DIV1  
 51     (ix) TELECOMMUNICATION INFORMATION:  
 52             (A) TELEPHONE: 302-892-8112  
 53             (B) TELEFAX: 302-773-0164  
 56 (2) INFORMATION FOR SEQ ID NO: 1:  
 58     (i) SEQUENCE CHARACTERISTICS:  
 59             (A) LENGTH: 12145 base pairs  
 60             (B) TYPE: nucleic acid  
 61             (C) STRANDEDNESS: single  
 62             (D) TOPOLOGY: linear  
 64     (ii) MOLECULE TYPE: DNA (genomic)  
 C--> 66     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 68 GTCGACCACC ACGGTGGTGA CTTAATGCC GCTCTCATGC AGCAGCTCGG TGGCGGTCTC       60  
 70 AAAATTCAGG ATGTCGCCGG TATAGTTTTT GATAATCAGC AAGACGCCTT CGCCGCCGTC       120  
 72 AATTTGCATC GCGCATTCAA ACATTTTGTC CGGCGTCGGC GAGGTGAATA TTCCCCCGG       180  
 74 ACAGGCGCCG GAGAGCATGC CCTGGCCGAT ATAGCCGAG TGCATCGGTT CATGTCCGCT       240

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78	CAGCGGGTCC	TGATGCAGGG	TCAGCTGCGG	ATGGGCTTTA	GCCAGCCCTT	GTAATTGTTT	360
80	ATTGAGTACA	TCCTCAACAC	GGTTAATCAG	CTTTTTCATT	ATTCAGTGCT	CCGTTGGAGA	420
82	AGGTTTCGAT	CCGCTCTCT	GCTGGCGGAG	GCGGTCATCG	CGTAGGGGTA	TCGTCTGACG	480
84	GTGGAGCGTG	CCTGGCGATA	TGATGATTCT	GGCTGAGCGG	ACGAAAAAAA	GAATGCCCGG	540
86	ACGATCGGGT	TTCATTACGA	AACATTGCTT	CCTGATTTTG	TTTCTTTATG	GAACGTTTTT	600
88	GCTGAGGATA	TGGTGAAAAT	GCGAGCTGGC	GCGCTTTTTT	TCTTCTGCCA	TAAGCGGCGG	660
90	TCAGGATAGC	CGGCGAAGCG	GGTGGGAAAA	AATTTTTTGC	TGATTTTCTG	CCGACTGCGG	720
92	GAGAAAAGGC	GGTCAAAAC	GGAGGATGT	AAGGGCATT	TGCGGCAAG	GAGCGGATCG	780
94	GGATCGCAAT	CCTGACAGAG	ACTAGGGTTT	TTTGTTCCTA	TATGGAACGT	AAAAAATTAA	840
96	CCTGTGTTTT	ATATCAGAAC	AAAAAGGCGA	AAGATTTTTT	TGTTCCCTGC	CGGCCCTACA	900
98	GTGATCGCAC	TGCTCCGGTA	CGCTCCGTTT	AGGCCGCGCT	TCAGTGGCGG	GCGCGGATAA	960
100	CGCCAGGGCT	CATCATGTCT	ACATGCGCAC	TTATTTGAGG	GTGAAAGGAA	TGCTAAAAGT	1020
102	TATTTCAATCT	CCAGCCAAAT	ATCTTCAGGG	TCCTGATGCT	GCTGTTCTGT	TCGGTCAATA	1080
104	TGCCAAAAAC	CTGGCGGAGA	GCTTCTTCGT	CATCGCTGAC	GATTTCTGTA	TGAAGCTGGC	1140
106	GGGAGAGAAA	GTGGTGAATG	GCCTGCAGAG	CCACGATATT	CGCTGCCATG	CGGAACGGTT	1200
108	TAACGCGCAA	TGCAGCCATG	CGGAAATCAA	CCGTCTGATG	GCGATTTTGC	AAAAACAGGG	1260
110	CTGCCGCGGC	GTGGTGGGGA	TCGGCGGTGG	TAAAAACCTC	GATACCGCGA	AGGCGATCGG	1320
112	TTACTACCCAG	AAGCTGCCCG	TGGTGGTGAT	CCCGACCATC	GCCTCGAACG	ATGCGCCAAC	1380
114	CAGCGCGCTG	TCGGTGATCT	ACACCGAAGC	GGGCGAGTTT	GAAGAGTATC	TGATCTATCC	1440
116	GAAAAACCCG	GATATGGTGG	TGATGGACAC	GGCGATTATC	GCCAAAGCGC	CGGTACGCCCT	1500
118	GCTGGTCTCC	GGCATGGGCG	ATGCGCTCTC	CACCTGGTTC	GAGGCCAAAG	CTTGCTACGA	1560
120	TGCGCGCGCC	ACCAGCATGG	CCGGAGGACA	GTCCACCGAG	GCGGCGCTGA	GCCTCGCCCG	1620
122	CCTGTGCTAT	GATACGCTGC	TGGCGGAGGG	CGAAAAAGGC	CGTCTGGCGG	CGCAGGCCCG	1680
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126	CTTTGAAAGC	AGTGGCCTGG	CCGCTGCCCA	TGCAATCCAC	AACGGTTTCA	CCATTCTTGA	1800
128	AGAGTGCCAT	CACCTGTATC	ACGGTGAGAA	AGTGGCCTTC	GGTACCCTGG	CGCAGCTGGT	1860
130	GCTGCAGAAC	AGCCCCATGG	ACGAGATTGA	AACGGTGACG	GGCTTCTGCC	AGCGCGTCCG	1920
132	CCTGCCGGTG	ACGCTCGCGC	AGATGGGCGT	CAAAGAGGGG	ATCGACGAGA	AAATCGCCGC	1980
134	GGTGGCGAAA	GCTACCTGCG	CGGAAGGGGA	AACCATCCAT	AATATGCCGT	TTGCGGTGAC	2040
136	CCCGGAGAGC	GTCCATGCCG	CTATCCTCAC	CGCCGATCTG	TTAGGCCAGC	AGTGGCTGGC	2100
138	GCGTTAATTC	GCGGTGGCTA	AACCGCTGGC	CCAGGTCAGC	GGTTTTTCTT	TCTCCCTCTC	2160
140	GGCAGTCGCT	CGCGGAGGGG	TTCTCTATGG	TACAACGCGG	AAAAGGATAT	GACTGTTTCA	2220
142	ACTCAGGATA	CCGGGAAGGC	GGTCTCTTCC	GTCAATTGCC	AGTCATGGCA	CCGCTGCAGC	2280
144	AAGTTTATGC	AGCGCGAAAC	CTGGCAAACG	CCGCACCAGG	CCGAGGGCCT	GACCTTCGAC	2340
146	TCCATCTGTC	GGCGTAAAC	CGCGCTGCTC	ACCATCGGCC	AGGCGGCGCT	GGAAGACGCC	2400
148	TGGGAGTTTA	TGGACGGCCG	CCCCTGCGCG	CTGTTTATTC	TTGATGAGTC	CGCCTGCATC	2460
150	CTGAGCCGTT	GCGGCGAGCC	GCAAAACCTG	GCCAGCTGG	CTGCCCTGGG	ATTTTCGCGAC	2520
152	GGCAGCTATT	GTGCGGAGAG	CATTATCGGC	ACCTGCGCGC	TGTCGCTGGC	CGCGATGCAG	2580
154	GGCCAGCCGA	TCAACACCCG	CGGCGATCGG	CATTTTAAAG	AGGCGCTACA	GCCATGGAGT	2640
156	TTTTGTCTGA	CGCCGGTGTT	TGATAACCA	GGGCGGCTGT	TCGGCTCTAT	CTCGCTTTGC	2700
158	TGCTTGCTCG	AGCACCATGC	CAGCGCCGAC	CTCTCCCTGA	CGCTGGCCAT	CGCCCGCGAG	2760
160	GTGGGTAAC	CTCGCTTAC	CGACAGCCTG	CTGGCGGAAT	CCAACCGTCA	CCTCAATCAG	2820
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164	CTGCAGTTTC	TCAATGTTCA	GGCGGCGAGA	CTGCTGCATC	TTGATGCTCA	GGCCAGCCAG	2940
166	GGGAAAAATA	TCGCCGATCT	GGTGACCCCT	CGGCGCTGTC	TGCGCCGCGC	CATCAAACAC	3000
168	GCCCGCGGCC	TGAATCACGT	CGAAGTCACC	TTTGAAAGTC	AGCATCAGTT	TGTCGATGCG	3060
170	GTGATCACCT	TAAACCCGAT	TGTCGAGGCG	CAAGGCAACA	GTTTTATTCT	GCTGCTGCAT	3120
172	CCGGTGAGGC	AGATGCGGCA	GCTGATGACC	AGCCAGCTCG	GTAAGTCAG	CCACACCTTT	3180

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 PATENT APPLICATION:    US/09/575,638A            TIME: 14:26:46

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178	AGCCAGGCTA	TTCACAATGA	AAGCGAACGG	GCGGGCGGCC	CCTACATCTC	CGTCAACTGC	3360
180	CAGCTATATG	CCGACAGCGT	GCTGGGCCAG	GACTTTATGG	GCAGCGCCCC	TACCGACGAT	3420
182	GAAATGGTC	GCCTGAGCCG	CCTTGAGCTG	GCCAACGGCG	GCACCTGTGT	TCTGGAAG	3480
184	ATCGAGTATC	TGGCGCCGGA	GCTGCAGTCG	GCTCTGCTGC	AGGTGATTAA	GCAGGGCGTG	3540
186	CTCACCCGCC	TCGACGCCCG	GCGCCTGATC	CCGGTGGATG	TGAAGGTGAT	TGCCACCACC	3600
188	ACCGTTCGATC	TGGCCAATCT	GGTGGAAACAG	AACCGCTTTA	GCCGCCAGCT	GTACTATGCG	3660
190	CTGCACCTCCT	TTGAGATCGT	CATCCCGCCG	CTGCGCGCCC	GACGCAACAG	TATTCGGTCG	3720
192	CTGGTGCATA	ACCGGTTGAA	GAGCCTGGAG	AAGCGTTTCT	CTTCGCGACT	GAAAGTGGAC	3780
194	GATGACGCGC	TGGCACAGCT	GGTGGCCTAC	TCGTGGCCCG	GGAATGATTT	TGAGCTCAAC	3840
196	AGCGTCATTG	AGAATATCGC	CATCAGCAGC	GACAACGGCC	ACATTCGCCT	GAGTAATCTG	3900
198	CCGGAATATC	TCTTTTCCGA	GCGGCCGGGC	GGGGATAGCG	CGTCATCGCT	GCTGCCGGCC	3960
200	AGCCTGACTT	TTAGCGCCAT	CGAAAAGGAA	GCTATTATTC	ACGCCGCCCG	GGTGACCAGC	4020
202	GGCGGGGTGC	AGGAGATGTC	GCAGCTGCTC	AATATCGGCC	GCACCACCTC	GTGGCGCAAA	4080
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206	CGATTGCGCG	CATGGAGAAC	AGGGCATCCG	ACAGGCGATT	GCTGTAGCGT	TTGAGCGCGT	4200
208	CGCGCAGCGG	ATCGCGCGCG	TCCATGGCCG	TCAGCAGGCG	TTGAGGCCGA	CGGGACTGGG	4260
210	TGCGCGCCAC	GTGCAGCTGG	GCAGAGGCGA	GATTCTCTCC	CGGGATCAGC	AACTGTTTTA	4320
212	ACGGGCGGCT	CTCGGCCATA	TTGCGGTCTGA	TAAGCCGCTC	CAGGGCGGTG	ATCTCTCTTT	4380
214	CGCCGATCGT	CTGGCTCAGG	CGGGTCAGGC	CCCGCGCATC	GCTGGCCAGT	TCAGCCCCCA	4440
216	GCACGAACAG	CGTCTGCTGA	ATATGGTGCA	GGCTTTCCCG	CAGCCCGGCG	TCGCGGGTCG	4500
218	TGGCGTAGCA	GACGCCCAGC	TGGGATATCA	GTTTCATCGAC	GGTGCCGTAG	GCCTCGACGC	4560
220	GAATATGGTC	TTTCTCGATG	CGGCTGCCGC	CGTACAGGGC	GGTGGTGCCCT	TTATCCCGCG	4620
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224	GCCCGGCGTT	GGCGCCGAGC	GTACGCAGTT	GATCGTCGCT	ATCGGTGACG	TGTCGGGTAG	4740
226	CCAGCGGCGC	GTCGCGCGGC	AGCTGGGCAT	GAGTGAGGGC	TATCTCGCCG	GACGCGCTGA	4800
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230	CACCGCCTCC	GTTCATAGTT	ATGGTCTGGC	AGGGGACCCC	CTGCTCCTCC	AGCCCCAGC	4920
232	ACAGCTCATT	GATGGCGCCG	GCATGGTGCC	CGCGGGGATC	GTAACACAGG	CGTACGCCCTG	4980
234	GCGGTGAAAG	CGACATGACG	GTCCCTCTGT	TAACACTCAG	AATGCCTGGC	GGAAAATCGC	5040
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238	CATCTCCGCC	ATGTAGGGGA	AGTCGGCCTC	TTTTACCCCC	AGATCGCGCA	GATGCTGCGG	5160
240	AATACCGATA	TCCATCGACA	GACGCGTGAT	AGCGGCGATG	GCTTTTTCGG	CCGCGTCCAG	5220
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244	GTTGGCGATC	AGGTTGTAGC	GCGCCACATG	CGGCAGCAGG	ACAGCGTTGG	CCACGCCGTG	5340
246	CGGCATGTGC	TACAGGCCGC	CCAGCTGGTG	CGCCATGGCG	TGCACGTAGC	CGAGGTTGGC	5400
248	GTTATTGAAA	GCCATCCCGG	CCAGCAGAGA	AGCATAGGCC	ATGTTTTCCT	GCGCCTGCAG	5460
250	ATTGCTGCCG	AGGGCCACGG	CCTGGCGCAG	GTTGCGGGCG	ATGAGGCGGA	TCGCCTGCAT	5520
252	GGCGGCGGCG	TCCGTACCCG	GGTTAGCGTC	TTTGAGAGATA	TAGGCCTCTA	CGGCGTGGGT	5580
254	CAGGGCATCC	ATCCCGGTGC	CGCGGTCAG	GGCGGCCGGT	TTACCGATCA	TCAGCAGTGG	5640
256	ATCGTTGATA	GAGACCGACG	GCAGTTTGCG	CCAGCTGACG	ATCACAAACT	TCACTTTGGT	5700
258	TTGCGTGTTC	GTCAGGACGC	AGTGGCGGGT	GACCTCGCTG	GCGGTGCCCG	CGGTGGTATT	5760
260	GACCGCGACG	ATAGGCGGCA	GCGGGTTGGT	CAGGGTCTCG	ATTCGCGCAT	ACTGGTACAG	5820
262	ATCGCCCTCA	TGGGTGGCGG	CGATGCCGAT	GCCTTTGCGG	CAATCGTGCG	GGCTGCCGCC	5880
264	CCCCACGGTG	ACGATGATGT	CGCACTGTTT	GCGGCGAAAC	ACGGCGAGGC	CGTCGCGCAC	5940
266	GTTGGTGTCT	TTCCGGTTTC	GCTCGACGCC	GTCAAAGATC	GCCACCTCGA	TCCCGGCCCT	6000
268	CCGCGAGATA	TGCAGGGTTT	TGTCCACCGC	GCCATCTTTA	ATTGCCCGCA	GGCCTTTGTC	6060
270	GGTGACCAGC	AGGGCTTTTT	TCCCCCCCAG	CAGCTGGCAG	CGTTCCCGCA	CTACGGAAAT	6120

RAW SEQUENCE LISTING                      DATE: 09/08/2000  
 PATENT APPLICATION: US/09/575,638A        TIME: 14:26:46

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274 AATATACCTT CTGCTTCAG GTTATAATGC GGAAAAACAA TCCAGGGCGC ACTGGGCTAA 6240
276 TAATTGATCC TGCTCGACCG TACCGCCGCT AACGCCGACG GCGCCAATTA CCTGCTCAT 6300
278 AAAAAATACT GGCAGGCGCG CGCCAAAAAT AATAATTCGC TGTGGTTGG TTAGCTGCAG 6360
280 ACCGTACAGA GATTGTCTCT GCTGGACCGC TGACGTAATT TCATGGGTAC CTGCTTCAG 6420
282 GCTGCAGGCG CTCCAGGCTT TATTCAGGGA AATATCGCAG CTGGAGACGA AGGCCCTCGTC 6480
284 CATCCGCTGG ATAAGCAGCG TGTGCTTCC GCGGTCAACT ACGGAAAAACA CCACCGCCAC 6540
286 GTTGATCTCA GTGGCTTTTT TTTCCACCGC CGCCGCCATT TGCTGGGCGG CGGCCAGGCT 6600
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290 CCGAATAGTC AGTAGGGGCG GATAGTAAAA AACTATTACC ATTCGGTTGG CTGCTTTAT 6720
292 TTTTGTGAGC GTTATTTTGT CGCCCGCCAT GATTTAGTCA ATAGGGTTAA AATAGCGTCG 6780
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296 TTTTATTTT TGCGCGCGGA GTAAAGTTTC ATAGTAAAC TGTGGTAGA TTTCTGTGC 6900
298 CAAATTGAAA CGAAATTTAA TTTATTTTT TCACCACTGG CTCATTAAA GTTCCGCTAT 6960
300 TGCCGGTAAT GGCAGGCGCG CAACGACGCT GCGCCGCGGT ATTCGCTACC GTCTGCGGAT 7020
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304 GCGCCGTCAG TCAGGACGGG CTGATTGGCG AGTGGCCTGA AGAGGGGCTG ATCGCCATGG 7140
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310 ACGTTGAGCG CACAGAGCAG GCAATGCGCC TGGAGGCGGT GGAATAGCC CGTATGCTGG 7320
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318 TGAGATTTGC CGCTGACGCC GCGGAGGCGG GGTATCGCGG CTCTCAGAA CAGGAGACCA 7560
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322 GCGGCGCCCG CCGCGTGTG ACGCAGTGCT CGGTGGAAGA GGCCACCGAG CTGGAGCTGG 7680
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334 GCATTCGGGC GTGTCTGGCG GAAACCTGA TCGCTCTAT GCTCGACCTC GAAGTGGCGT 8040
336 CCGCAACGA CCAGACTTTC TCCCACTCGG ATATTGCGCG CACCGCGCGC ACCCTGATGC 8100
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340 ACATGTTGCG CGGCTCGAAC TTCGATGCGG AAGATTTTGA TGATTACAAC ATCCTGCAGC 8220
342 GTGACCTGAT GGTTCACGGC GGCCTGCGTC CGGTGACCGA GGCGGAAACC ATTGCCATTC 8280
344 GCCAGAAAGC GGCAGGCGG ATCCAGGCGG TTTTCGCGA GCTGGGGCTG CCGCCAATCG 8340
346 CCGACGAGGA GGTGGAGGCC GCCACCTACG CGCACGGCAG CAACGAGATG CCGCCGCGTA 8400
348 ACGTGGTGGA GGATCTGAGT GCGGTGGAAG AGATGATGAA GCGCAACATC ACCGGCTCG 8460
350 ATATTGTCGG CGCGCTGAGC CGCAGCGGCT TTGAGGATAT GCAGCAAT ATTCCTCAATA 8520
352 TGCTGCGCCA GCGGGTCACC GCGGATTACC TGACAGCTC GGCCATTCTC GATCGGCGAT 8580
354 TCGAGGTGGT GAGTGGCTC AACGACATCA ATGACTATCA GGGGCGGGC ACCGGCTATC 8640
356 GCATCTCTGC CGAACGCTG GCGGAGATCA AAAATATTCC GGGCGTGGT CAGCCCGACA 8700
358 CCATTGAATA AGCGGTATT CTGTGCAAC AGACAACCCA AATTCAGCCC TCTTTTACCC 8760
360 TGAACACCCG CGAGGGCGG GTAGCTTCTC CCGATGAACG GCGCGATGAA GTGGTGCATG 8820
362 GCGTCGGCCC TGCTTCGAT AAACACGAGC ATCACACTCT GATCGATATG CCCCATGGCG 8880
364 CGATCCTCAA AGAGCTGATT GCGGGGGTGG AAGAAGAGGG GCTTCACGCC CGGGTGGTGC 8940
366 GCATTCTGCG CACGTCGAC GTCTCCTTTA TGGCTGGGA TGCGGCCAAC CTGAGCGGCT 9000
368 CCGGGATCGG CATCGGTATC CAGTCGAAGG GGACCAAGGT CATCCATCAG CGCGATCTGC 9060

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370	TGCCGCTCAG	CAACCTGGAG	CTGTTCTCCC	AGGCGCCGCT	GCTGACGCTG	GAGACCTACC	9120
372	GGCAGATTGG	CAAAAACGCT	GCGCGCTATG	CGCGCAAAGA	GTCACCTTCG	CCGGTGCCGG	9180
374	TGGTGAACGA	TCAGATGGTG	CGGCCGAAAT	TTATGGCCAA	AGCCGCGCTA	TTTCATATCA	9240
376	AAGAGACCAA	ACATGTGGTG	CAGGACGCCG	AGCCCGTCAC	CCTGCACATC	GACTTAGTAA	9300
378	GGGAGTGACC	ATGAGCGAGA	AAACCATGCG	CGTGCAGGAT	TATCCGTTAG	CCACCCGCTG	9360
380	CCCGGAGCAT	ATCCTGACGC	CTACCGGCAA	ACCATTGACC	GATATTACCC	TCGAGAAGGT	9420
382	GCTCTCTGGC	GAGGTGGGCC	CGCAGGATGT	GCGGATCTCC	CGCCAGACCC	TTGAGTACCA	9480
384	GGCGCAGATT	GCCGAGCAGA	TGCAGCGCCA	TGCGGTGGCG	CGCAATTTCC	GCCGCGCGGC	9540
386	GGAGCTTATC	GCCATTCCCT	ACGAGCGCAT	TCTGGCTATC	TATAACCGCG	TGCGCCCGTT	9600
388	CGGCTCCTCG	CAGGCGGAGC	TGCTGGCGAT	CGCCGACGAG	CTGGAGCACA	CCTGGCATGC	9660
390	GACAGTGAAT	GCCGCCTTTG	TCCGGGAGTC	GGCGGAAGTG	TATCAGCAGC	GGCATAAGCT	9720
392	GCGTAAAGGA	AGCTAAGCGG	AGGTCAGCAT	GCCGTTAATA	GCCGGGATTG	ATATCGGCAA	9780
394	CGCCACCCACC	GCCGCGCCGG	TGCGTCCGA	CTACCGCAG	GCGAGGGCGT	TTGTTGCCAG	9840
396	CGGGATCGTC	GCGACGACGG	GCATGAAAGG	GACGCGGGAC	AATATCGCCG	GGACCTTCGC	9900
398	CGCGCTGGAG	CAGGCCCTGG	CGAAAACACC	GTGGTCGATG	AGCGATGTCT	CTCGCATCTA	9960
400	TCTTAACGAA	GCCGCGCCGG	TGATTGGCGA	TGTGGCGATG	GAGACCATCA	CCGAGACCAT	10020
402	TATCACCGAA	TCGACCATGA	TCGGTCATAA	CCCGCAGACG	CCGGCGGGGG	TGGGCGTTGG	10080
404	CGTGGGGACG	ACTATCGCCC	TCGGGCGGGT	GGCGACGCTG	CCGGCGGGCG	AGTATGCCGA	10140
406	GGGGTGGATC	GACTGATTGG	ACGACGCCGT	CGATTTCCTT	GACGCCGTGT	GGTGGCTCAA	10200
408	TGAGGCGCTC	GACCGGGGGA	TCAACGTGGT	GGCGGCGATC	CTCAAAAAGG	ACGACGGCGT	10260
410	GCTGGTGAAC	AACCGCCTGC	GTAACACCTT	GCCGTTGGTG	GATGAAAGTG	CGCTGCTGGA	10320
412	CGAGGTCCTC	GAGGGGGTAA	TGGCGGCGGT	GGAAGTGGCC	GCGCCGGGGC	AGGTGGTGCG	10380
414	GATCCTGTCG	AATCCCTACG	GGATCGCCAC	CTTCTTCGGG	CTAAGCCCGG	AAGAGACCCA	10440
416	GGCCATCGTC	CCCATCGCCC	GCGCCCTGAT	TGGCAACCGT	TCCGCGGTGG	TGCTCAAGAC	10500
418	CCCGCAGGGG	GATGTGCAGT	CGCGGGTGAT	CCCGCGGGGC	AACCTCTACA	TTAGCGGGCA	10560
420	AAAGCGCCGC	GGAGAGGCCG	ATGTCGCCGA	GGGCGCGGAA	GCCATCATGC	AGGCGATGAG	10620
422	CGCTGCGCT	CCGGTACGCG	ACATCCGCGG	CGAACCGGGC	ACCCACGCCG	GCGGCATGCT	10680
424	TGAGCGGGTG	CGCAAGGTAA	TGGCGTCCCT	GACCGGCCAT	GAGATGAGCG	CGATATACAT	10740
426	CCAGGATCTG	CTGGCGGTGG	ATACGTTTAT	TCCGCGCAAG	GTGCAGGGCG	GGATGGCCGG	10800
428	CGAGTGCGCC	ATGGAGAATG	CCGTCCGGAT	GGCGGCGATG	GTGAAAGCGG	ATCGTCTGCA	10860
430	AATGCAGGTT	ATCGCCCGCG	AACTGAGCGC	CCGACTGCAG	ACCGAGGTGG	TGGTGGGCGG	10920
432	CGTGGAGGCC	AACATGGCCA	TCGCCGGGGC	GTTAACCACT	CCCGGCTGTG	CGGCGCCGCT	10980
434	GGCGATCCTC	GACCTCGGCG	CCGGCTCCAC	GGATGCGGCG	ATCGTCAACG	CGGAGGGGCA	11040
436	GATAACGGCG	GTCCATCTCG	CCGGGGCGGG	GAATATGGTC	AGCCTGTTGA	TTAAAACCGA	11100
438	GCTGGGCCTC	GAGGATCTTT	CGCTGGCGGA	AGCGATAAAA	AAATACCCGC	TGGCCAAAGT	11160
440	GGAAGCCCTG	TTCACTATTC	GTCACGAGAA	TGGCGCGGTG	GAGTTCTTTC	GGGAAGCCCT	11220
442	CAGCCCGGCG	GTGTTTCGCC	AAGTGGTGTA	CATCAAGGAG	GGCGAACTGG	TGCCGATCGA	11280
444	TAACGCCAGC	CCGCTGGAAG	AAATTCGTCT	CGTGCGCCGG	CAGGCGAAGG	AGAAAGTGTT	11340
446	TGTCACCAAC	TGCCTGCGCG	CGCTGCGCCA	GGTCTCACCC	GGCGGTTCCA	TTCCGATAT	11400
448	CGCCTTTGTG	GTGCTGGTGG	GCGGCTCATC	GCTGGACTTT	GAGATCCCGC	AGCTTATCAC	11460
450	GGAAGCCTTG	TCGCACATAT	GCGTGGTCGC	CGGGCAGGGC	AATATTCGGG	GAACAGAAAG	11520
452	GCCGCGCAAT	CGGTCGCCCA	CCGGGTGCT	ACTGGCCGGT	CAGGCGAATT	AAACGGGCGC	11580
454	TCGCGCCAGC	CTCTCTCTTT	AACGTGCTAT	TTCAGGATGC	CGATAATGAA	CCAGACTTCT	11640
456	ACCTTAACCG	GGCAGTGCGT	GGCCGAGTTT	CTTGGCACCG	GATTGCTCAT	TTTCTTCGGC	11700
458	GCGGGCTGCG	TCGCTGCGCT	GCGGGTCGCC	GGGGCCAGCT	TTGGTCAAGT	GGAGATCAGT	11760
460	ATTATCTGGG	GCTTGGCGGT	CGCCATGGCC	ATCTACCTGA	CGGCGGGTGT	CTCCGGCGCG	11820
462	CACCTAAATC	CGGCGGTGAC	CATTGCCCTG	TGGCTGTTTC	CCTGTTTGA	ACGCGGCAAG	11880
464	GTGCTGCCGT	TTATTGTTGC	CCAGACGGCC	GGGGCCTTCT	GCGCCGCGCG	GCTGGTGAT	11940
466	GGGCTCTATC	GCCAGCTGTT	TCTCGATCTT	GAACAGAGTC	AGCATATCGT	GCGGCGCACT	12000

VERIFICATION SUMMARY                      DATE: 09/08/2000  
PATENT APPLICATION:    US/09/575,638A       TIME: 14:26:47

Input Set : A:\Pto.amc ~  
Output Set: N:\CRF3\09082000\I575638A.raw

L:38 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:39 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:66 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:484 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:498 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:512 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:526 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:540 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:554 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:568 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:582 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:612 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:626 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:640 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:654 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:668 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:688 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:706 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:720 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:734 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:748 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:762 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:776 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:790 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:804 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:818 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:832 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:846 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:860 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:874 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
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L:958 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:986 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1000 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1006 M:220 C: Keyword misspelled or invalid format, [(i) SEQUENCE CHARACTERISTICS:]  
L:1014 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1028 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1042 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1056 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1070 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1084 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1098 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1112 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]

1651

RAW SEQUENCE LISTING                      DATE: 09/05/2000  
 PATENT APPLICATION:    US/09/575,638A        TIME: 12:17:04

Input Set : A:\CRr9715 US DIV1 corrected seq listing.txt  
 Output Set: N:\CRF3\09052000\I575638A.raw

**Does Not Comply  
 Corrected Diskette Needed**

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:  
 5     (i) APPLICANT: LAFFEND, LISA ANNE  
 6                   NAGARAJAN, VASANTHA  
 7                   NAKAMURA, CHARLES  
 9     (ii) TITLE OF INVENTION: BIOCONVERSION OF A FERMENTABLE  
 10                                   CARBON SOURCE TO 1,3-PROPANE-  
 11                                   DIOL BY A SINGLE MICROORGANISM  
 13     (iii) NUMBER OF SEQUENCES: 46  
 23     (iv) CORRESPONDENCE ADDRESS:  
 25             (B) STREET: 4 CAMBRIDGE PLACE  
 26                               1870 SOUTH WINTON ROAD  
 27             (C) CITY: ROCHESTER  
 28             (D) STATE: NEW YORK  
 29             (E) COUNTRY: U.S.A.  
 30             (F) ZIP: 14618  
 32     (v) COMPUTER READABLE FORM:  
 33             (A) MEDIUM TYPE: 3.50 INCH DISKETTE  
 34             (B) COMPUTER: IBM  
 35             (C) OPERATING SYSTEM: MICROSOFT WINDOWS 95  
 36             (D) SOFTWARE: MICROSOFT WORD 7.0A  
 38     (vi) CURRENT APPLICATION DATA:  
 C--> 39             (A) APPLICATION NUMBER: US/09/575,638A  
 C--> 40             (B) FILING DATE: 22-May-2000  
 41             (C) CLASSIFICATION:  
 43     (vii) PRIOR APPLICATION DATA:  
 44             (A) APPLICATION NUMBER: 08/440,293  
 45             (B) FILING DATE: MAY 12, 1995  
 47     (viii) ATTORNEY/AGENT INFORMATION:  
 48             (A) NAME: LINDA AXAMETHY FLOYD  
 49             (B) REGISTRATION NUMBER: 33,692  
 50             (C) REFERENCE/DOCKET NUMBER: CR9715 US DIV1  
 52     (ix) TELECOMMUNICATION INFORMATION:  
 53             (A) TELEPHONE: 302-892-8112  
 54             (B) TELEFAX: 302-773-0164

ERRORED SEQUENCES



VERIFICATION SUMMARY                      DATE: 09/05/2000  
PATENT APPLICATION:    US/09/575,638A       TIME: 12:17:05

Input Set : A:\CRr9715 US DIV1 corrected seq listing.txt  
Output Set : N:\CRF3\09052000\I575638A.raw

L:39 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:40 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:0 M:200 E: Mandatory Header Field missing, [(A) ADDRESSEE:]  
L:67 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:485 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:499 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:513 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:527 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
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L:569 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:583 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:613 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:627 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:641 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:655 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:669 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:689 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:707 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
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L:749 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
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L:791 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:805 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:819 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:833 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:847 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
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L:931 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:945 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:959 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:987 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1001 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1007 M:220 C: Keyword misspelled or invalid format, [(i) SEQUENCE CHARACTERISTICS:]  
L:1015 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
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L:1085 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1099 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1108 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:]

VERIFICATION SUMMARY                      DATE: 09/05/2000  
PATENT APPLICATION:    US/09/575,638A        TIME: 12:17:05

Input Set : A:\CRr9715 US DIV1 corrected seq listing.txt  
Output Set: N:\CRF3\09052000\I575638A.raw

L:1108 M:220 C: Keyword misspelled or invalid format, Poss data loss, Seq 46, (C) STRANDEDNESS:  
L:1113 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1118 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:46